

OADS

PUBLIC WORKS CONTRACT

PLANS FOR PROPOSED FOREST DEVELOPMENT PROJECT

2160000	2160000	2160000	LTF	ROAD NO.
105+60 TO 211+20	52+80 TO 105+60	0+00 TO 52+80		STA to STA
13.98 - 14.98	11.98 - 13.98	10.98 - 11.98		MP to MP
_	N	_		LENGTH (MILES)
OPTION #3 CONSTRUCITON	OPTION #2 CONSTRUCITON	OPTION #1 CONSTRUCITON	BASE	TYPE
n	п	п	σ	CLOSURE DEVICE

	PIT AND QUARRY DETAILS	<u>-</u>
٥.	EROSION CONTROL	-3
	BRIDGE TYPICAL	12
	CULVERT DETAILS	_
	LINEAR GRADING	9-10
	LTF DETAILS	5-8
	SUMMARY OF QUANTITIES	4
	LOCATION MAP	2-3
	TITLE SHEET	1
	DESCRIPTION	NO.
	EX TO SHEETS	INDEX

CLOSURE DEVICE

- ROAD TO REMAIN OPEN
- ROAD TO BE CLOSED BY ORGANIC ENCROACHMENT (ALDER GROWTH). NO WORK REQUIRED BY PURCHASER.
- ROAD TO BE CLOSED BY SEEDING.
 ROADWAY TO BE SCARIFIED TO A
 DEPTH OF 4". SEED ALL EXPOSED
 AREAS, PLUS THE TRAVELLED WAY,
 PER ITEM 625(03). COST
 ALLOWANCE IS CONTAINED IN THE
 APPRAISAL.

ENGINEERING & RECREATION

TNFTYP:08/2004

REVIEWED: L. DUNHAM

DATE: 08/01/08 DATE: 07/29/08 DATE: 07/29/08

XXXXXXXXX XXXXXXXXX XX/XX/XX XXXXXXXXX

XX/XX/XX XXXXXXXXXXXXXX

X. XXXXXX

X. XXXXXX X.XXXXXX

POREST SERVICE

USDA FOREST SERVICE - TONGASS NATIONAL FOREST

CRAIG DISTRICT

PLOT ON 11"X17" PAPER

LANCASTER ROADS

R-10 -

DRAWN: BRAY

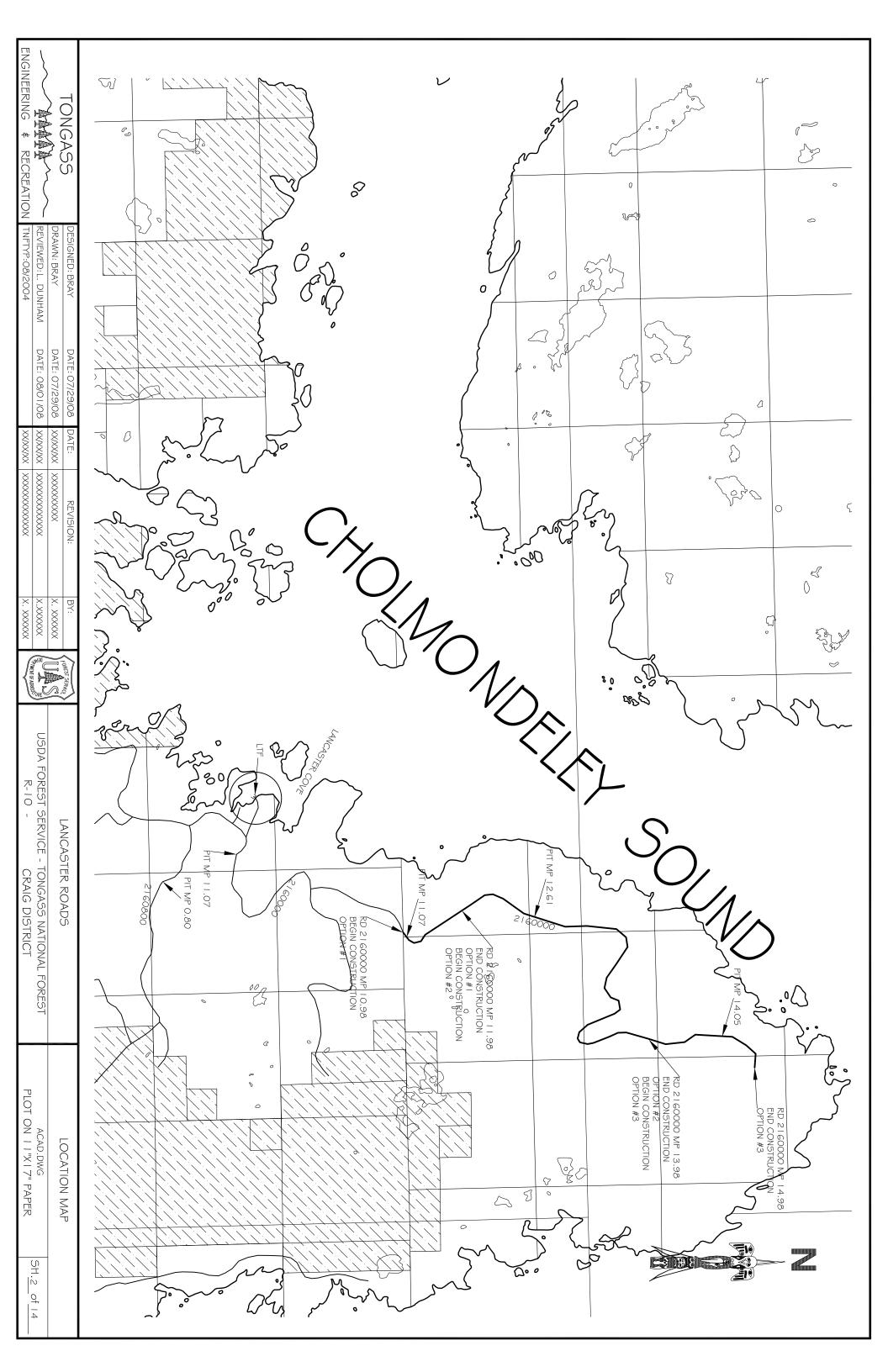
DESIGNED: BRAY

DATE:

REVISION:

ONGASS

		FOREST	70	DISTRIC	RECOMMENDED
ACAD.DWG	SHEET TITLE	FOREST ENGINEER	Ę	DISTRICT RANGER	MENDED
SH.					
SH.1_of_14		DATE		DATE	



ENGINEERING # RECREATION TNFTYP:08/2004 DATE: 08/01/08 XXXXXXXX	TONGASS DESIGNED: BRAY DATE: 07/29/08 DATE: 07/29/08 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX											25101 PLACED RIPRAP, CLASS 6, METHOD A	ZUCU MANINE UINUCIUNE EXCAVATION	_	20305 REMOVAL OF STRUCTURES AND OBSTRUCTIONS	15101 MOBILIZATION		ITEM DESCRIPTION	
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	REVISION:											1100 CY		- 3000	_			QUANITIES	SUMMARY (
\$\d30	BY: forest service											CQ			5	S	< T	METHOD OF	OF ESTIMATE
USDA FOR												2		?	5	5		\subseteq	\bigcup
USDA FOREST SERVICE - TONGASS NATIONAL FOREST R-10 - CRAIG DISTRICT	LANCASTER ROADS											1100	1200					1	QUANTITIES
ACAD.DWG PLOT ON 11"X17" PAPER SH.3_of_14	SUMMARY OF ESTIMATED QUANTITIES																		

6020184	6020148	6020136	6020124	6020118	57 02	<u>N</u>	NUMBER
					02	21201	
O.105" THICKNESS FOR ALUMINUM, METHOD (C), 3 X I" CORRUGATIONS	48" CORRUGATED METAL PIPE 0.079" THICKNESS FOR STEEL OR 0.075" THICKNESS FOR ALUMINUM, METHOD (C), 2 \(\frac{2}{3}\) X \(\frac{1}{2}\)" CORRUGATIONS 84" CORRUGATED METAL PIPE	36" CORRUGATED METAL PIPE 0.064" THICKNESS FOR STEEL OR 0.060" THICKNESS FOR ALUMINUM, METHOD (C), 2 \(\frac{2}{3}\) X \(\frac{1}{2}\)" CORRUGATIONS	24" CORRUGATED METAL PIPE 0.064" THICKNESS FOR STEEL OR 0.060" THICKNESS FOR ALUMINUM, METHOD (C), 2 \frac{2}{3} \times \frac{1}{2}" CORRUGATIONS	18" CORRUGATED METAL PIPE 0.064" THICKNESS FOR STEEL OR 0.060" THICKNESS FOR ALUMINUM, METHOD (C), 2 \(\frac{2}{3}\) X \(\frac{1}{2}\)" CORRUGATIONS	GOVERNMENT FURNISHED BRIDGE, TRANSPORT AND INSTALL	LINEAR GRADING	DESCRIPTION
AQ	AQ	AQ	AQ	AQ	5	AQ	MEASUREMENT
FOOT	FOOT	FOOT	FOOT	FOOT	EACH	M H	
50	30	0	205	376	0	_	ATED QI OPTION #1
43	0	39	282	<i>8</i> 35	0	2	JANTITIES OPTION #2
0	40	0	0	570	_	_	ROAD # 2
							2160000
			I				



DESIGNED: BRAY
DRAWN: BRAY REVIEWED: L. DUNHAM TNFTYP:08/2004 DATE: 08/01/08

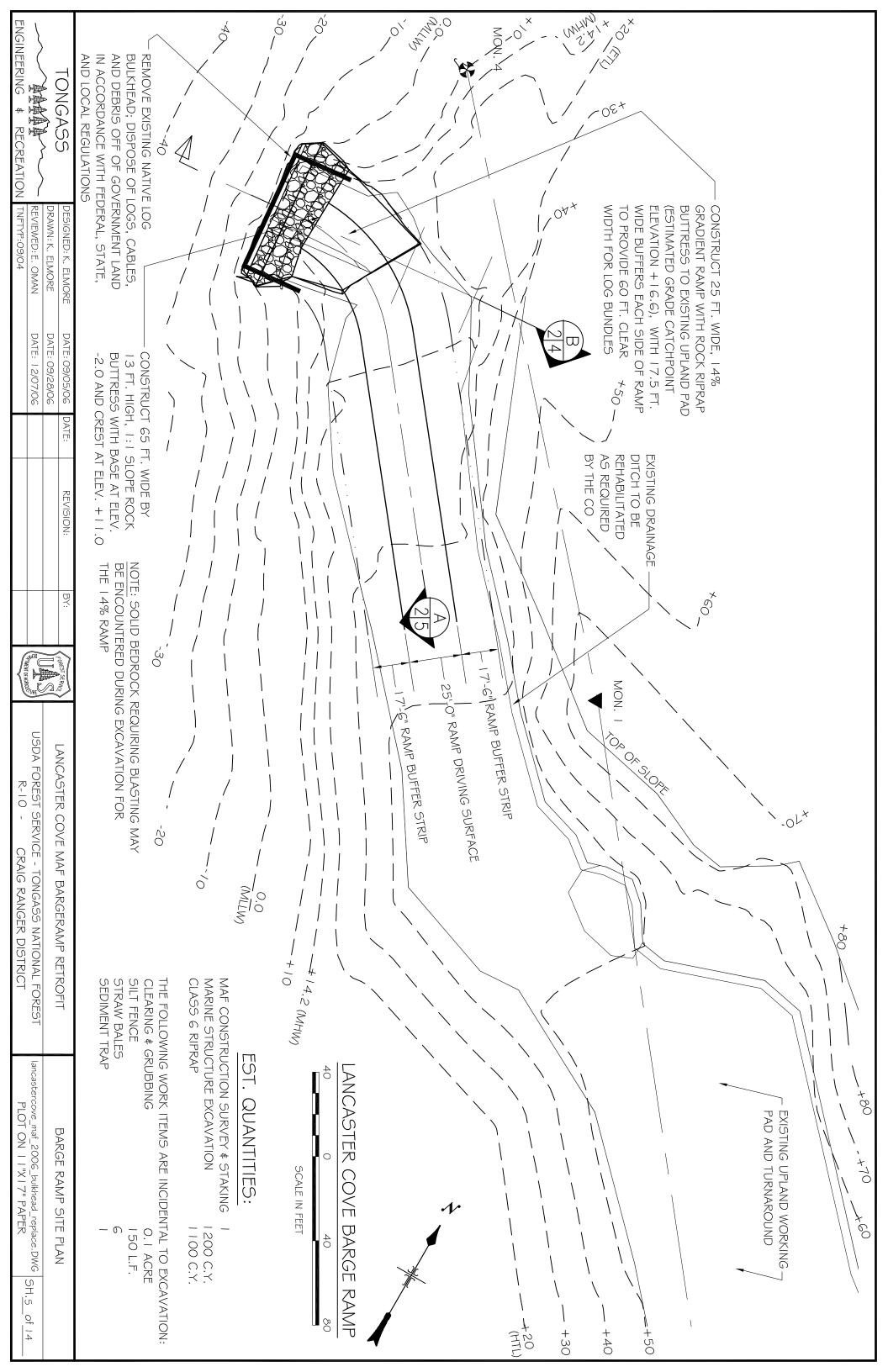
X. XXXXXXX BY:

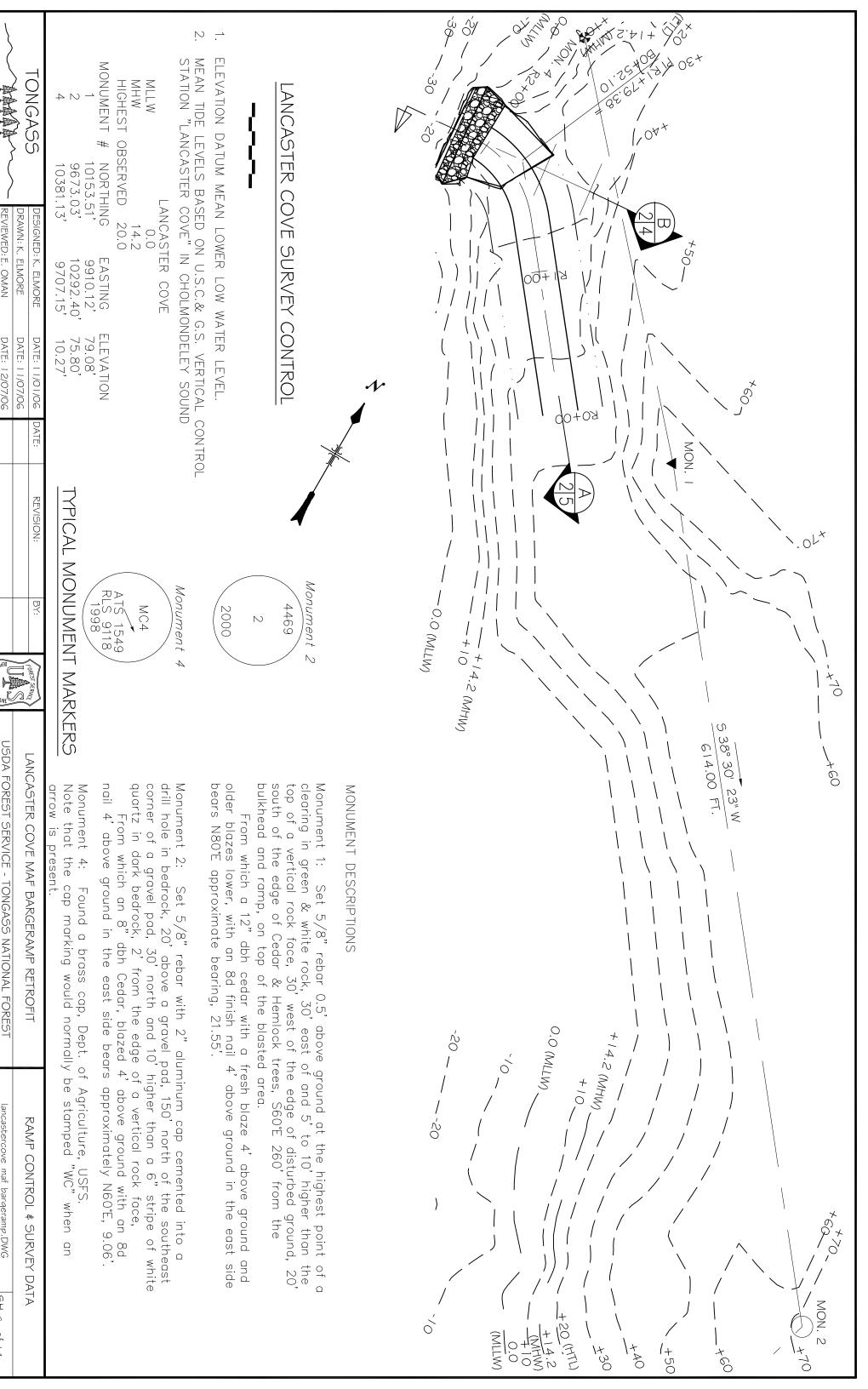
USDA FOREST SERVICE - TONGASS NATIONAL FOREST R-10 - CRAIG DISTRICT

LANCASTER ROADS

SUMMARY OF ESTIMATED QUANTITIES ACAD.DWG PLOT ON 11"X17" PAPER

SH.4_ of 14





ENGINEERING

TNFTYP:09/04 REVIEWED: E. OMAN

DATE: 12/07/06

USDA FOREST SERVICE - TONGASS NATIONAL FOREST

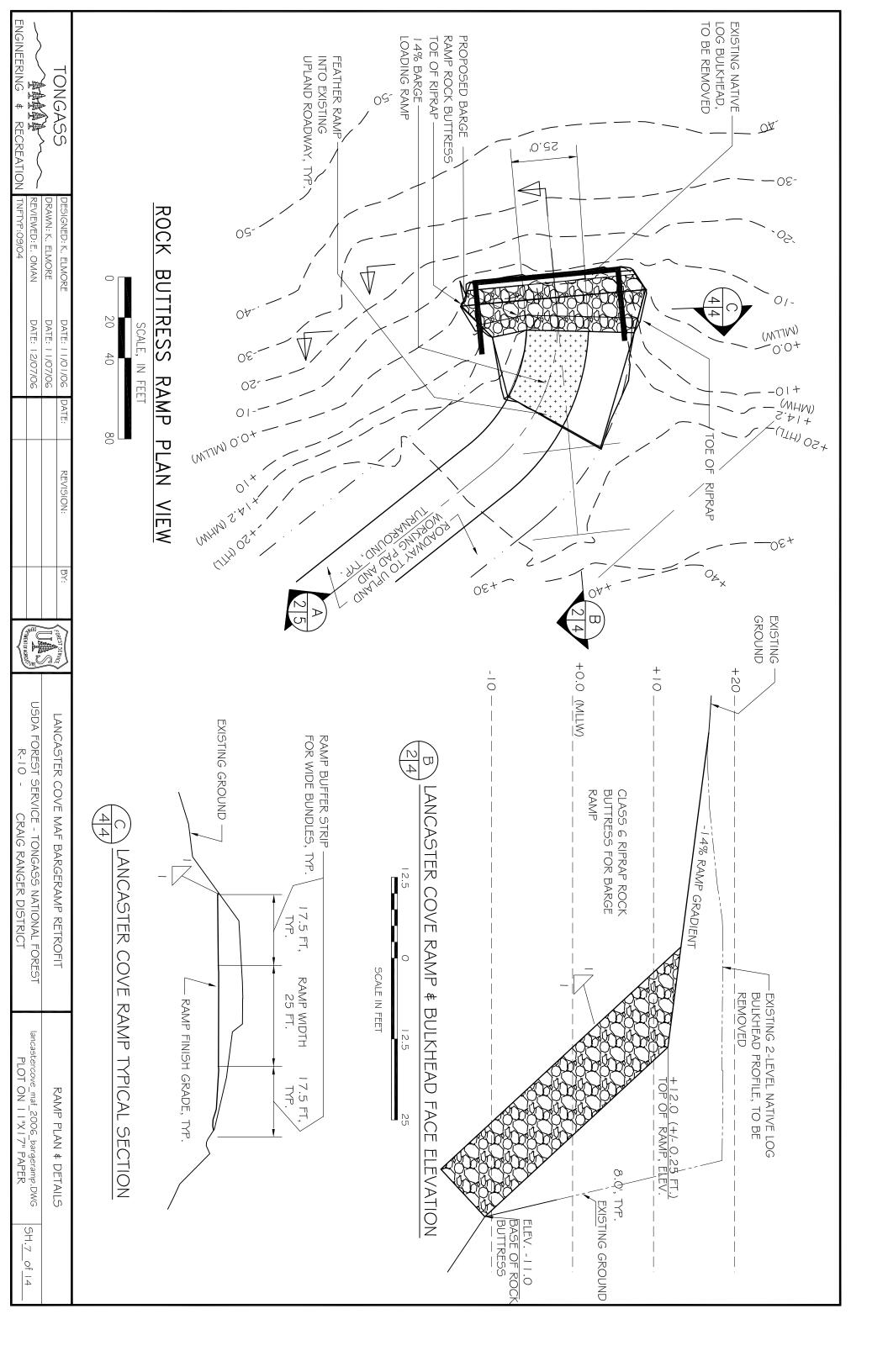
CRAIG RANGER DISTRICT

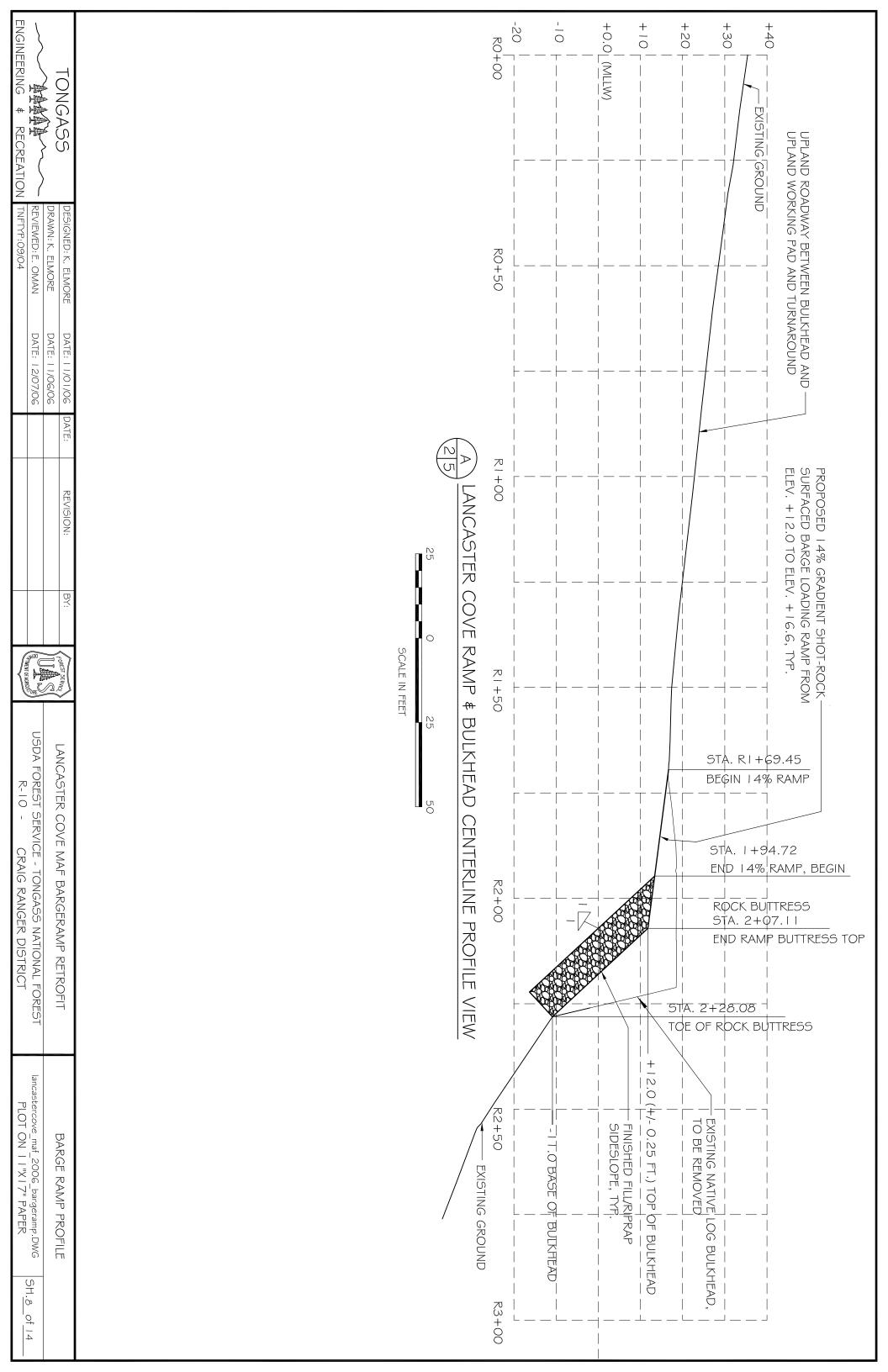
lancastercove_maf_bargeramp.DWG PLOT ON | | "X|7" PAPER

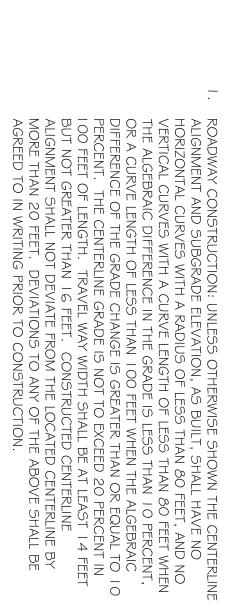
SH.6_of_14

R-10 -

一種重要重







 $\dot{\wp}$ UNDISTURBED STI CONSTRUCTION. CLEARING LIMITS OF LESS THAN 46 FEET ARE CLEARING LIMITS: NOMINAL CLEARING LIMITS SHALL BE 46 FEET.
CLEARING LIMIT MARKINGS MUST BE APPROVED IN WRITING PRIOR TO AGAINST STANDING TREES AND IS APPROVED BY THE CO. ACCEPTABLE PROVIDING NO DEBRIS OR EXCAVATION IS PLACED JMPS AND OTHER CLEARING DEBRIS IN EMBANKMENT

WHERE REQUIRED CONSTRUCT DITCH

PREPARED GROUND SURFACE, CONSTRUCT DEBRIS MAT

GRUBBING, UNDISTURBED STUMPS \$ CLEARING DEBRIS, SEE NOTE 3

FREE OF DEBRIS & EXCAVATION, PARALLEL TO ROAD CENTERLINE

DECK MERCHANTABLE TIMBER

TYPICAL OVERLAY SECTION

5' MIN. 5' MIN.

VARIABLE CLEARING LIMITS

24" MIN

SUBGRADE

5 MN.

EXISTING GROUND

- $\dot{\omega}$ AREAS MAY BE LEFT IN PLACE IF THEY DO NOT EXTEND CLOSER THAN 24 NCHES TO ANY SUBGRADE (RIO FSS 201.05b)
- 4. UNMERCHANTABLE TIMBER AND LARGE SLASH TREATMENT FP-03-SECTION FSS 203.05(h)
- 9 OUTSLOPE TRAVELED WAY 3% IN FULL BENCH AND SIDEHILL SECTIONS, SLOPE TO DITCH IV: IH(COMMON). CUT SLOPES FOR (ROCK) SHALL BE 2V: IH OR STEEPER AND IN THRU CUTS AND CROWN ROAD AWAY FROM FILL SLOPE SHALL BE IV: 1 4H.

. U

 $^{\sim}$ FP-03-SECTION FSS 625. SEED AND FERTILIZE ALL DISTURBED AREAS AS SPECIFIED IN

CENTERLINE IN ALL OTHER SECTIONS.

- $\dot{\phi}$ SPACING BETWEEN WATERBARS IS VARIABLE. DISTANCES BETWEEN WATERBARS SHALL BE DETERMINED IN THE FIELD BY THE ER/COR.
- 9 SUBGRADE IS TO HAVE I 2" MINIMUM COVERAGE IN ROCK SECTIONS
- AND 24" MINIMUM COVERAGE IN ALL OTHER SECTIONS.
- 10. INTERVISIBLE TURNOUTS/PULLOUTS ARE TO BE CONSTRUCTED AT ENGINEER. INTERVALS NOT TO EXCEED 500 FEET OR AS DIRECTED BY THE
- 11. AVERAGE CLEARING LIMITS BY SIDESLOPE:

20% - 40% = 50 FT0% - 20% = 46 FT

40% - 55% = 59 FT60% - 80% = 67 FT

MPICAL THROUGH CUT SECTION

PREPARED GROUND SURFACE,
DEBRIS MAT OR BENCH

3% OUTSLOPE

24

MIN. LIFT

LIMBS, TOPS, SLASH, CULL LOGS ROADWAY EXCAVATION EXCESS TO DEBRIS MAT OR BENCH REQUIREMENTS

<u>-</u>

BORROW and/or SUITABLE ROCK EXCAVATION

 \leq $\bar{\Omega}$

GRUBBING LIMITS

CLEARING LIMITS

EXISTING GROUND

 \leq Ω

FREE OF DEBRIS & EXCAVATION, PARALLEL TO ROAD CENTERLINE DECK MERCHANTABLE TIMBER

SLOPE PER NOTE 5

UNCLASSIFIED EXCAVATION

<i></i>	DESIGNED: BRAY	DATE: 07/29/08 DATE:	DATE:	REVISION:	BY:
	DRAWN: BRAY	DATE: 07/29/08 07/25/0\$ NOTE 10 ADDED	07/25/05		KB/VH
	REVIEWED: L. DUNHAM	DATE: 08/01/08 01/06 NOTE 11 ADDED	01/06		GWB
REATION	REATION TNFTYP:08/2004		XX/XX/XX	XXXXXXXXXXXX	X. XXXXXX

ENGINEERING

ONGASS

一般事事事

CRAIG DIST	R-10 -
E - TONGASS N	USDA FOREST SERVICE - TONGASS N
LANCASTER ROADS	LANCA

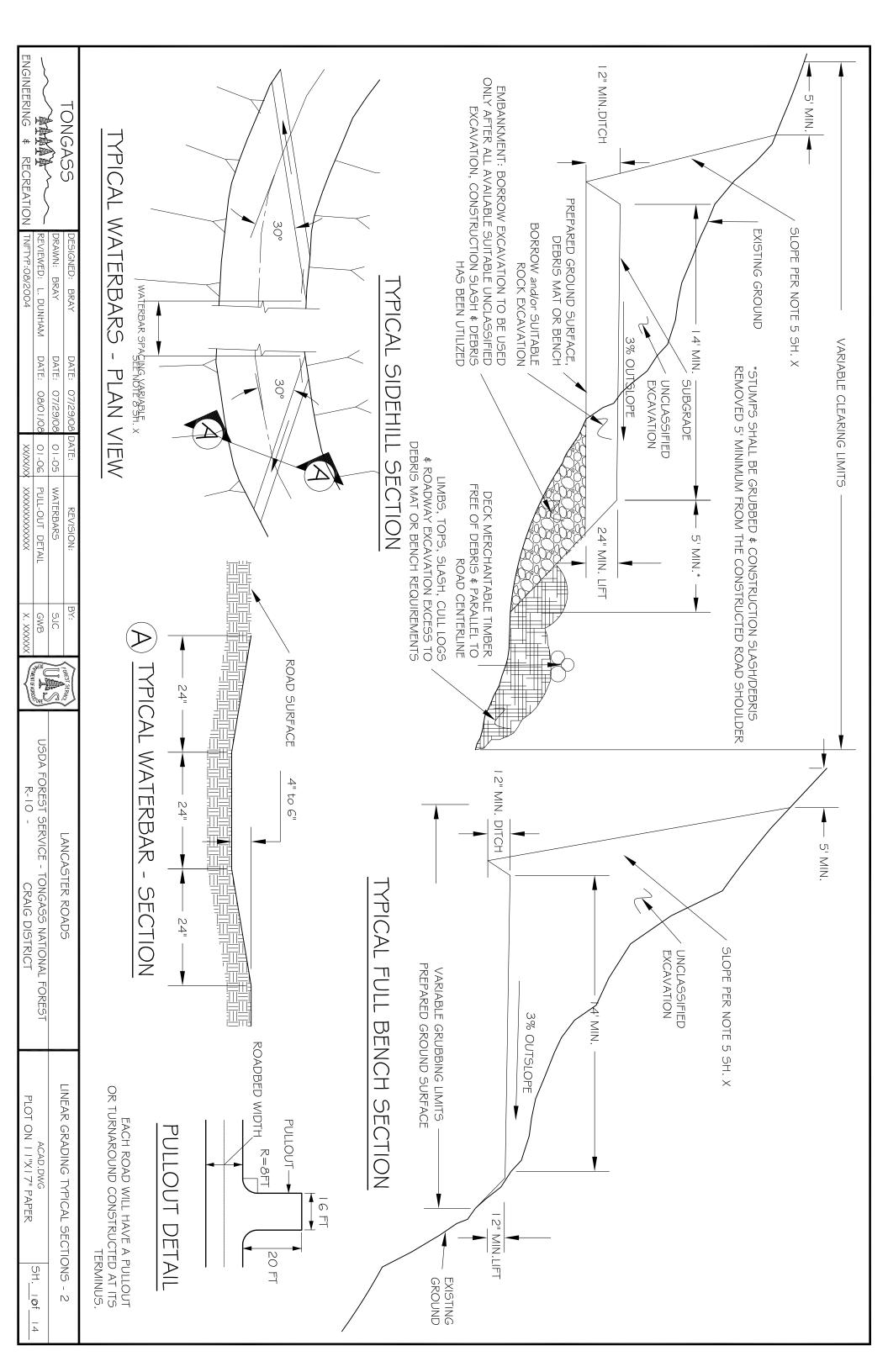
DISTRICT

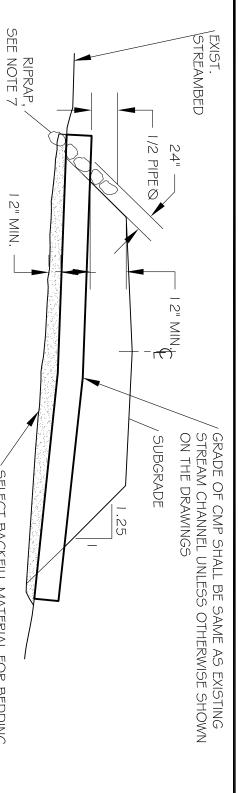
35 NATIONAL FOREST

FOREST SERVICE

LINEAR GRADING TYPICAL SECTIONS - I PLOT ON 11"X17" PAPER ACAD.DWG

SH.9 | |0 |14





 $\dot{\omega}$

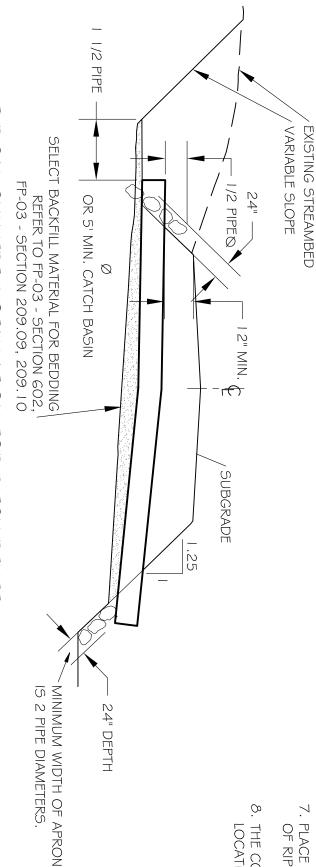
2. MINIMUM CULVERT GRADES SHALL BE 5% OR 1/2 OF THE TRIBUTARY DITCH GRADE

CAMBER WILL DEPEND ON SITE CONDITIONS. MAXIMUM CAMBER IS 2% (STEEL OR ALUMINUM CULVERTS) OR 1% (POLYETHYLENE CULVERTS) OF CULVERT LENGTH BY NO MORE THAN 2.5-IN AT CENTER.

I. PLACE CULVERT IN ALIGNMENT WITH THE NATURAL STREAM CHANNEL. WHERE NO CHANNEL IS APPARENT INSTALL CULVERTS AT SKEWS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE C.O.

NOTES

TYPICAL CULVERT INSTALLATION AT LIVE STREAMS



REFER TO FP-03 - SECTION 602, FP-03 - SECTION 209.09, 209.10 SELECT BACKFILL MATERIAL FOR BEDDING

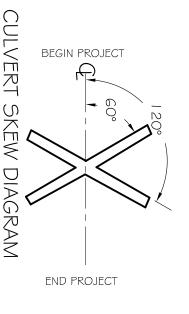
- 6. MINIMUM COVER OVER CULVERTS UNLESS OTHERWISE SHOWN ON THE DRAWINGS IS 12-IN.

5. CULVERT INLETS AND OUTLETS SHALL EXTEND 24-IN BEYOND THE TOE OF THE FILL UNLESS AGREED

TO BY THE C.O.

4. CATCH BASIN CONSTRUCTION IS REQUIRED WHEN SHOWN ON THE DRAWINGS AND AT ALL INSTALLATIONS WHERE THE INLET IS LOWER THAN NATURAL GROUND.

- 7. PLACE RIPRAP AT SITES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE C.O. MINIMUM WIDTH OF RIPRAP IS 1.5 PIPE DIAMETERS. CLASS 4 (MIN) SIZE.
- 8. THE CONTRACTOR SHALL PROVIDE THE C.O. A LIST OF AS- SLOPE STAKED CULVERT LENGTHS AND LOCATIONS.



TYPICAL CULVERT INSTALLATION FOR DITCH RELIEF

POLYETHYLENE (PE) CU

PER ASTM D 335

CORRUGATED

CELL CLASS. CE NO. 315412C NO

			<u>~</u>	Z	(0 =	
72	60	48	18 TO 36	INCHES	PIPE	ALUMINU
0.109"/12 0.105"/12	0.079"/14	0.079"/14	0.064"/16	STEEL	INC	ALUMINUM \$ STEEL CULVERT CORRUGATIONS SHALL CONFORM TO THE FOLLOWING:
0		0		<i>,</i>	MIN. INCH / GAGE	ULVE 1 TO 1
).105"/12	0.075"/14	0.075"/14	0.060"/16	ALUMINUM	AGE	ERT CORRUC
3 <u>"</u> × — <u>"</u>	\(\alpha_{\text{\tin}\text{\tex{\tex	2 2/3" X O.5"	2 2/3" X O.5"		CORRUGATIONS	GATIONS /ING:
U	30 4		SIZIS	ס		

ENE (PE) CULV STM D 3350 RUGATED	ENE (PE) CULVERT STM D 3350 RUGATED		OLYET	POLYETHYLENE (PE) CULVERT	CULVERT
_L CLASS. 315412C	L CLASS. CELL CLASS. 315412C NO. 324420C	PIPE	S Z	CELL CLASS. CELL CLASS	CELL CLASS
MAXIMUM FILL HEIGHT IN FEET	N FILL N FEET	2 × ×	COVER	MAXIMUM FILL HEIGHT IN FEET	N FILL
- - - - -	ΙΟ	<u>~</u>	<u>_</u>	<u>o</u>	24
- 5	1 O ₁	24"	7	22	28
- 5	ΙΟ̈́	30	7	22	28
	1 O ₁	36	7	25	31'
		40"	12"	21'	175
		1			

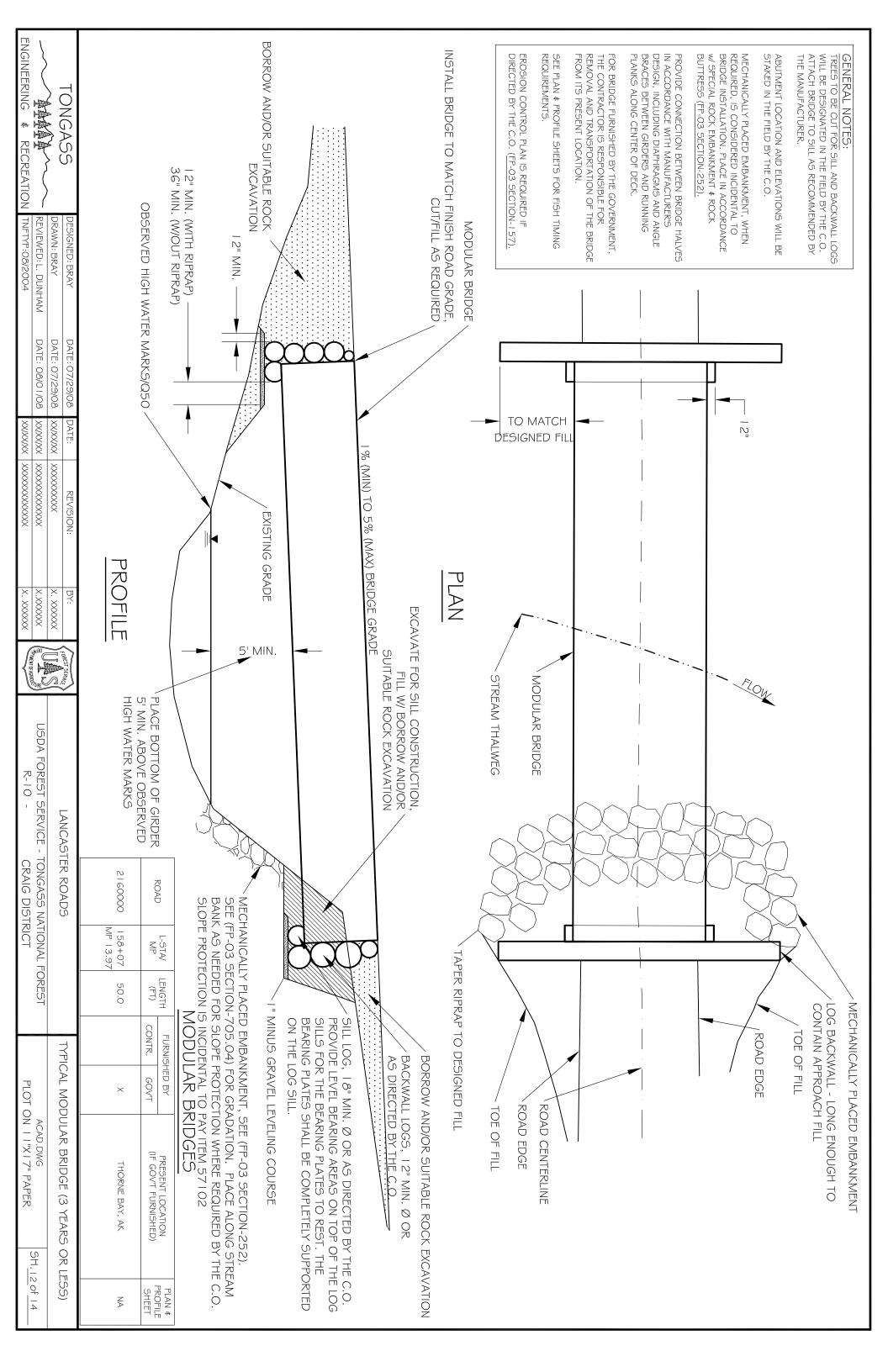
MIN. COVER

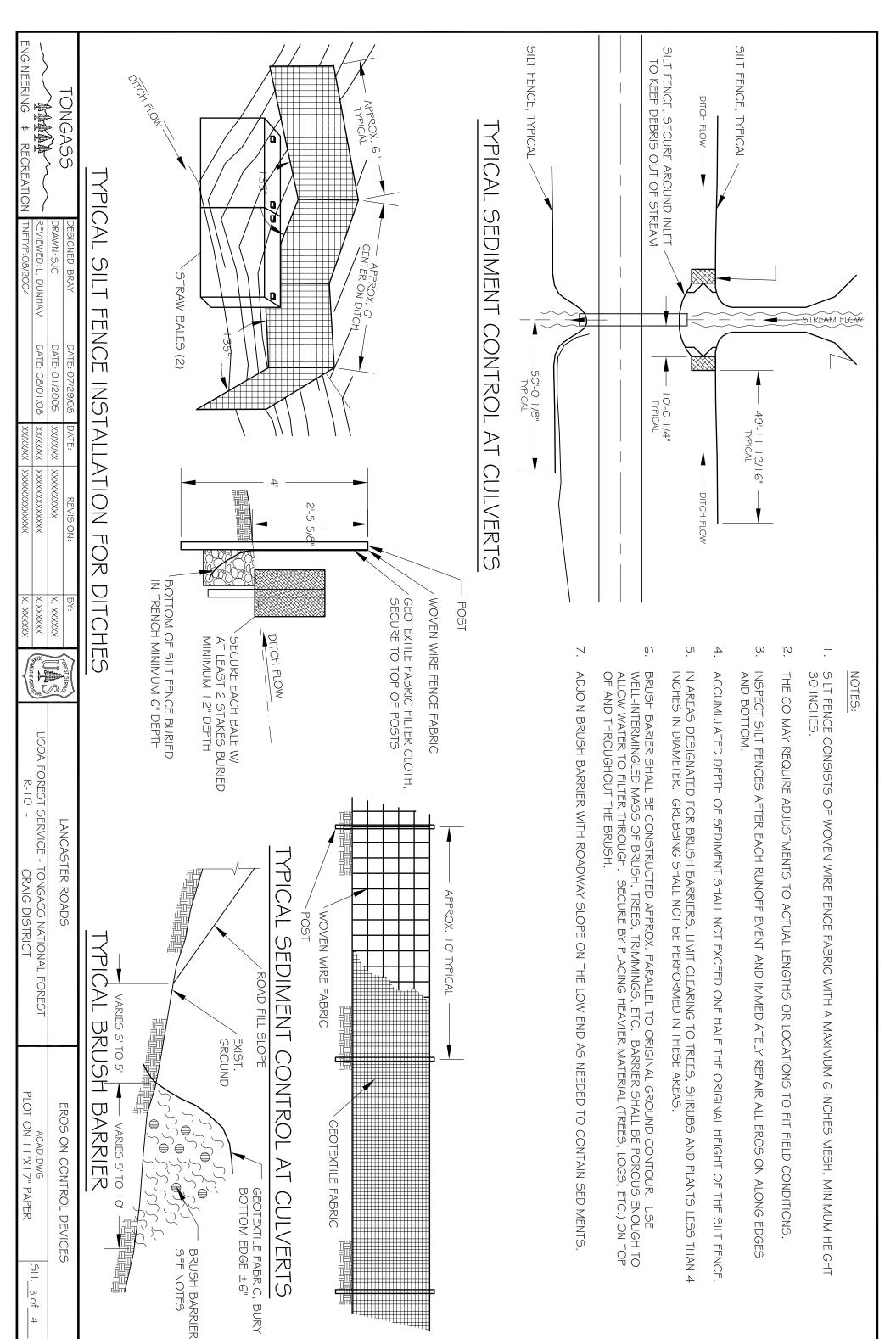
<u>_</u> <u>_</u>

<u>_</u>

26'	27'	31	28'	28'	24'	335434C))			V L N I
	TYPICAL CATCH BASIN WITH DITCH BLOCK					335434C GREATER THAN THE TOP OF THE CULVERT	HEIGHT OF DITCH BLOCK SHALL BE NO	WITH 12" MAX. AVERAGE DIAMETER. 25' TAPER EACH SIDE	CONSTRUCT DITCH BLOCK OF ROCK	

PLOT ON 11"X17" PAPER """""""""""""""""""""""""""""""""""	R-10 - CRAIG DISTRICT	P-	X. XXXXXX	XX/XX/XX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX		TNFTYP:08/2004	ENGINEERING \$ RECREATION TNFTYP:08/2004
ACAD.DWG SH 1.0 f 4	USDA FOREST SERVICE - TONGASS NATIONAL FOREST		G.BITTORF	DATE: 08/01/08 2/23/07 UPDATED SPECS	DATE: 08/01/08	REVIEWED: L. DUNHAM	一人 無無強無無 ()
			SJC / KWB	DATE: 07/29/08 1/19/05 CORRECTED DWG	DATE: 07/29/08	DRAWN: BRAY	
TYPICAL CHIVERT DETAILS	I ANCASTER ROADS	EDREST SERVICE	BY:	DATE: REVISION:	DATE: 07/29/08 DATE:	DESIGNED: BRAY	TONGASS
		76	40 12			-	-
		う こ こ					





ENGINEERING II. PROVISIONS FOR FUTURE QUARRY DEVELOPMENT ACCESS WILL BE PROVIDED, 14. SEED AND FERTILIZE ALL DISTURBED AREAS SUCH AS OVERBURDEN PILES AND 12. INSTALL AND MAINTAIN A COMMERCIALLY AVAILABLE RAIN GAUGE MEASURING IN 10. LEAVE NO MORE THAN 5% BY VOLUME OF OVERSIZE MATERIAL IN THE QUARRY. $\dot{\phi}$ 7. LEAVE THE PIT/QUARRY IN A NEAT, ORDERLY AND WELL-DRAINED CONDITION . U 4. $\dot{\omega}$ 9 9 2. REMOVE ALL OVERBURDEN TO SOLID ROCK FOR A MINIMUM DISTANCE OF 15' 3. HAUL WILL NOT BE ALLOWED BEYOND DESIGNATED SOURCES UNLESS OTHERWISE DISPOSE OF OR STOCKPILE FOR LATER USE ALL OVERBURDEN, CLEARING, MERCHANTABLE TIMBER AND GRUBBING DEBRIS AS SHOWN ON THE QUARRY WITHIN THE CLEARING LIMITS: SLOPE THE CUT BANK OF THE OVERBURDEN TO THE NATURAL ANGLE OF REPOSE TEST SHOTS OF 1300 to 2600 CUBIC YARDS ARE REQUIRED AT ALL QUARRY SITES SECTIONS 65 I FELL ALL DEAD TREES AND SNAGS WHICH ARE SUFFICIENTLY TALL TO REACH THE ALL PITS AND QUARRIES SHALL BE APPROVED IN WRITING BY THE C.O. PRIOR TO EXPLORATION, CLEARING OR DEVELOPMENT. BENCH SURFACES IN ACCORDANCE WITH SECTION 625 SHOWN ON THE DRAWINGS OR AGREED TO BY THE CO. UNITS OF INCHES AND FRACTIONS OF INCHES IN ACCORDANCE WITH SECTION BREAK DOWN ANY MATERIAL OVER THIS VOLUME AND USE AS SPECIFIED IN IF DESCRIBED IN THE SPECIFICATIONS AFTER EXCAVATION IS COMPLETE CLEAN THE AREA AND LEAVE AS SHOWN ON THE QUARRY DEVELOPMENT PLAN. TREAT ANY ACCESS ROAD AS SHOWN ON THE DEVELOPMENT PLAN. DISLODGED AT ANY LATER DATE SHALL BE REMOVED. - STUMPS AND BRUSH MAY BE LEFT IN PLACE, EXCEPT THAT ALL STUMPS THAT PROTRUDE FROM EXCAVATED BANKS OR THAT HAVE THE POTENTIAL TO BECOME BACK SLOPE STABILITY. 205.08 UNLESS THIS REQUIREMENT IS WAVED BY THE CO QUARRY DEVELOPMENT PLAN REMOVE ALL OVERHANGS AND LOOSE ROCK. WORK AREA BUT IN NO CASE STEEPER THAN 1:1. FROM THE WORKING FACE STABLE TREES UP TO 6" dbh NEED NOT BE CUT IF THEY WILL NOT INTERFERE WITH MAXIMUM STUMP HEIGHT SHALL BE IN ACCORDANCE WITH SPECIFICATIONS. ONGASS 東事事事 -(n- RECREATION TNFTYP:08/2004 REVIEWED: L. DUNHAM DRAWN: SJC ESIGNED: BRAY DATE: 2/24/05 DATE: 08/01/08 DATE: 07/29/08 DATE: XXXXX XX/XX/XX XXXXXX XXXXXXXXXXXXX XXXXXXXXX REVISION SP. MILE POST DESIGNATED MATERIAL SOURCE DIRECTION OF HAUL (ROCK QUARRY) MP XX.XX 5 4. ω Ņ ω CONTRACTOR REHABILITATION PLAN DEVELOPMENT PLAN .O.P. APPROX. ELEV 1160/ DEVELOPMENT WILL COMPLY WITH THE GENERAL NOTES SHOWN ON THE PIT \$ QUARRY DEVELOPMENT TYPICAL SHEET. PROVISIONS FOR FUTURE QUARRY ACCESS WILL BE PROVIDED UNLESS THIS REQUIREMENT IS WAIVED BY THE COR. ALL OVERSIZE ROCK WILL BE PLACED AGAINST THE SIDES OF THE QUARRY NEXT TO THE BACKWALL BENCH. OVERBURDEN WILL NOT BE PLACED IN THE SMALL STREAM BORDERING THE QUARRY ALL DISTURBED AREAS, SUCH AS OVERBURDEN PILES, BENCH SURFACES, AND ACCESS ROAD SURFACES, WILL BE SEEDED AND FERTILIZED IN ACCORDANCE WITH A MINIMUM OF 12-IN OF OVERBURDEN WILL BE EVENLY SPREAD OVER THE THE ACCESS ROAD WILL BE OBLITERATED BY CUTTING A DITCH AT THE JUNCTION OF THE ACCESS ROAD WITH ROAD NO. $6030~{\rm AND}$ BY ROUGHING UP THE ACCESS TEST SHOT OF APPROX. 2000 CU. YD. IS PLANNED ALL MERCHANTABLE TIMBER WILL BE REMOVED FROM THE QUARRY SITE AND DECKED IN THE MUSKEG LEFT OF $27\!+\!20$ THIS AREA TO BE CLEARED ONLY IF THE OVERBURDEN CANNOT BE CONTAINED BETWEEN THE ACCESS QUARRY FLOOR ROAD SURFACE. ×.×××× X. XXXXXX BY: LEGEND XXXXXX TIMBER FROM QUARRY SITE DECKED IN MUSKEG ROAD AND ROAD NO. 6030 SAMPLE QUARRY DEVELOPMENT PLAN CLEARING LIMIT FLAGGED QUARRY IS LOCATED RIGHT Topics Service RD. XXXXX 2+720 QUARRY DEVELOPMENT PLAN 5 LOCATED RIGHT OF STA 27+58 ON ROAD €030 €030 ESTIMATE OF VOLUME = 24,850 CU. YD.HAUL DIAGRAM COR CROSS SECTION VIEW ACCESS ROAD USDA FOREST SERVICE - TONGASS NATIONAL FOREST PLAN VIEW MP XX.XX E.O.P. RD. XXXXX R-10 27+58 ON ROAD NO. 603C 3% SLOPE DATE MP XX.XX = MP XX.XX -STREAM OVERBURDEN ACCESS ROAD 105 RD. XXXXX LANCASTER ROADS DISTRICT RANGER CRAIG DISTRICT . NO. 6030 40-FT 15-FT MIN OBD APPROX. ELEV 1260 15-FT MIN DATE "HI DRIVE" PRIMER WITH 125 to — 250 ms DU PONT ELECTRIC BLASTING CAP LOCATED AT BOTTOM OF HOLE WITH ONE 3-IN × 6-IN STICK OF TOVEX TOTAL POUNDS OF POWDER IN SHOT (INCLUDING PRIMERS) = 3385 lbs. DENSITY = 20 lbs./cu. yd.TYPE OF PRIMER \$ LOCATION IN HOLE = BOREHOLE SIZE = 3.5-IN HOLE DEPTH = 10-FT to 30-FT SPACING = 10-FT BURDEN = 8-FT STEMMING = 5-FT TYPE OF EXPLOSIVES = TOVEX 800, 3" X 16" NUMBER OF CUBIC YARDS IN SHOT = 2670 PLANNED SHOT DATE = JUNE 15, 1996 POWDER FACTOR = 1 lb. PER CUBIC YARD MAX. POUNDS OF POWDER PER 8 ms DELAY = 1090 TOTAL NUMBER OF HOLES IN SHOT = 45 NAME OF BLASTER IN CHARGE = T.J. BARRYLOCA SAMPLE 2" DIA STICK OF HI DRIVE 'IRING SEQUENCE - SEQUENCE OF DELAYS IS THE SAME FOR ALL 5 ROWS JSED FOR CUSHION TED IN BOTTOM OF HOLE ACTUAL MILLESECOND DELAY USING QUARRY BLASTING PLAN THIS PLAN IS FOR THE FIRST TEST SHOT IN THE QUARRY TYPICAL LOADED HOLE QUARRY BLASTING PLAN SHOT SHO! 9,620 CU.YD. | 13,080 CU.YD. PRODUCTION RIGHT OF STA. 27+58 ON ROAD NO. 6030 PLOT ON 11"X17" PAPER pit_and_quarry_rev.DWG PIT & QUARRY DEVELOPMENT SEQUENTIAL TIMER <u>N</u> − TEST SHOT 40 MAX FIRST PRODUCTION SHOT 3.5-IN DIA HOLE 5-FT STEMMING ₹ 2<u>0</u> 40 MAX (SS) (I) (81) 282 (ES)-2<u>8</u>E 2.E.E 20ε 282 282 208 ₹ J 648 649 682 63) D FZZ (EI) SEQUENTIAL TIMER 643 83 (B) 500 314 6 6 OVERBURDEN (1) CLEARING LIMITS SH. 14 of 14 718 997 61 (3) (I) <u>N</u>0. G 0 283 283 802 E8 I 83 805 233 6030 7 (2) (4) (2)(t) Ø \bigcirc emOOS em271 em2S1 em021 swg/l 200ms FREE FACE